



Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

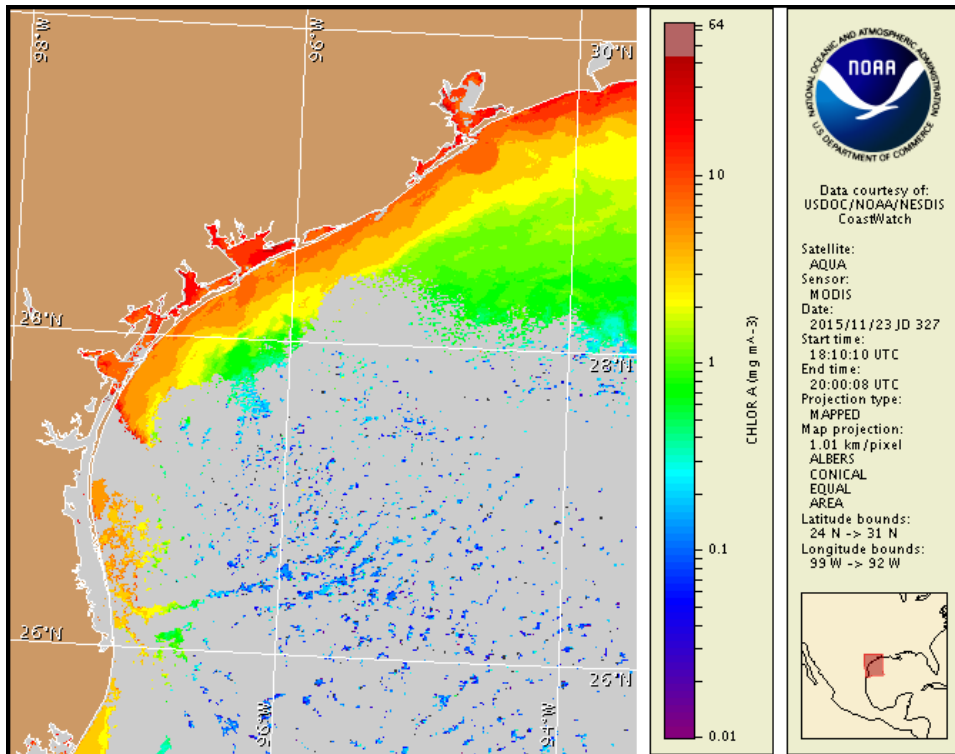
Wednesday, 25 November 2015

NOAA National Ocean Service

NOAA Satellite and Information Service

NOAA National Weather Service

Last bulletin: Monday, November 23, 2015



Satellite chlorophyll image with possible *K. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from November 15 to 24: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf

Detailed sample information can be obtained through the Texas Parks and Wildlife Department at:

<http://www.tpwd.state.tx.us/landwater/water/enviroconcerns/hab/redtide/status.phtml>

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive:

<http://tidesandcurrents.noaa.gov/hab/bulletins.html>

Conditions Report

Not present to high concentrations of *Karenia brevis* (commonly known as Texas red tide) may be present along the coast of Texas coast from Matagorda Bay to the Rio Grande. *K. brevis* concentrations are patchy in nature and levels of respiratory irritation will vary locally based upon nearby bloom concentrations, ocean currents, and wind speed and direction. The last samples received were in early November. Based on the most recent observations, no respiratory irritation is expected alongshore Texas Wednesday, November 25 through Monday, November 30. If you experience uncomfortable symptoms, consider going to an unaffected beach nearby.

Check http://tidesandcurrents.noaa.gov/hab/beach_conditions.html for recent, local observations. Reports of discolored water have been received from Corpus Christi Bay.

Analysis

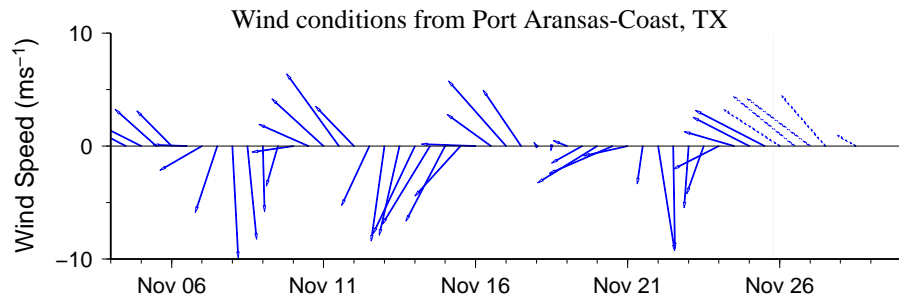
****Due to the upcoming federal holiday, the next bulletin will be issued on Monday, November 30. ****

As of November 4, all samples collected from South Padre Island beaches have indicated that *Karenia brevis* is not present (TPWD; 11/23). No additional samples are available at this time. Recent observations indicated discolored water was still present in Corpus Christi Bay, but no additional reports of impacts have been received from this region or elsewhere along the coast of Texas (TPWD; 11/23). Detailed sample information and a summary of impacts can be obtained through Texas Parks and Wildlife Department at: <http://www.tpwd.state.tx.us/landwater/water/enviroconcerns/hab/redtide/status.phtml>. For information on area shellfish restrictions, contact the Texas Department of State Health Services.

Recent MODIS Aqua imagery (11/23, shown left) is partly obscured by clouds from just south of Corpus Christi Bay to the Rio Grande, limiting analysis in this region. Elevated chlorophyll (3-10 $\mu\text{g/L}$) is visible in patches along- and offshore the Texas coast from Bolivar Roads Pass to Padre Island National Seashore.

Forecast models based on predicted near-surface currents indicate a maximum bloom transport from coastal sample locations of 100 km south from Aransas Pass from November 23 to November 27.

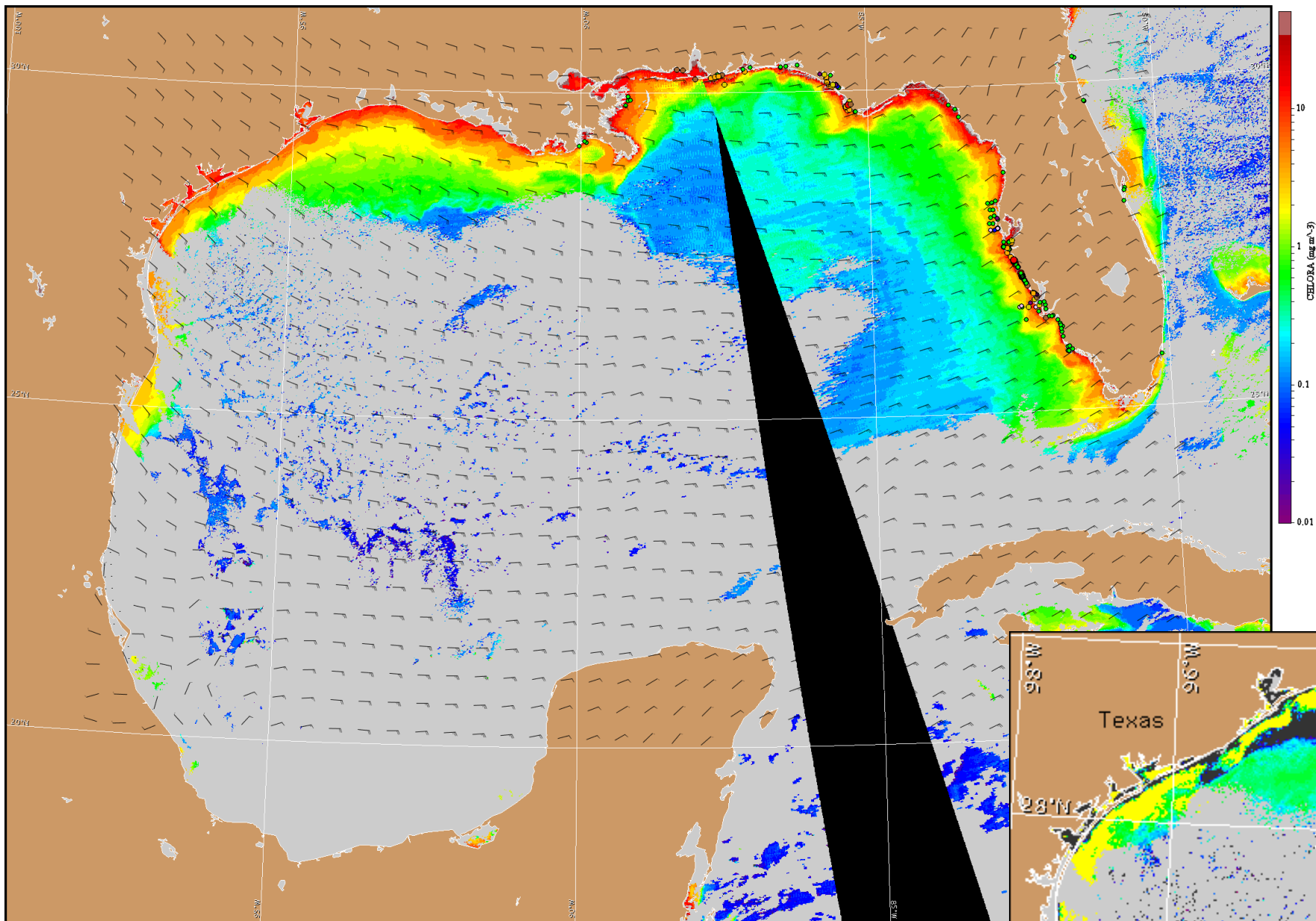
Lalime, Derner



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

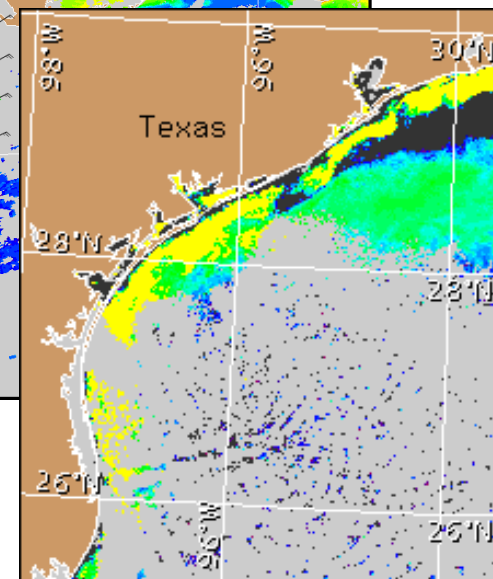
Wind Analysis

Port Aransas to Baffin Bay: Southeast winds (10-20kn, 5-10m/s) today through Saturday. Northeast winds (10kn, 5m/s) Saturday night. North winds (10-15kn, 5-8m/s) Sunday.



Satellite chlorophyll image and forecast winds for November 26, 2015 12Z with points representing cell concentration sampling data from November 15 to 24: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Texas Parks and Wildlife Department. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

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Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).